

ECONOLITE ASC/3-2070
OVERLAP PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select 2. CONTROLLER

2. From CONTROLLER Submenu select 2. VEHICLE OVERLAPS

Toggle to 'Overlap G'
OVERLAP G

Select TMG VEH OVLP [G] and 'NORMAL'

TMG VEH OVLP...[G] TYPE:NORMAL
PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . . X . X
LAG GRN 0.0 YEL 0.0 RED 0.0

Toggle Once

OVERLAP H

Select TMG VEH OVLP [H] and 'NORMAL'

TMG VEH OVLP...[H] TYPE:NORMAL
PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
INCLUDED . . X X
LAG GRN 0.0 YEL 0.0 RED 0.0

Toggle to 'Overlap B'

OVERLAP B

Select TMG VEH OVLP [B] and 'PPLT FYA'

TMG VEH OVLP...[B] TYPE:PPLT FYA
PROTECTED LEFT TURN.... OVERLAP G
OPPOSING THROUGH..... PHASE 4
FLASHING ARROW OUTPUT.....CH10 ISOLATE
DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE..... 0

Toggle Once

OVERLAP C

Select TMG VEH OVLP [C] and 'PPLT FYA'

TMG VEH OVLP...[C] TYPE:PPLT FYA
PROTECTED LEFT TURN.... PHASE 5
OPPOSING THROUGH..... PHASE 6
FLASHING ARROW OUTPUT.....CH11 ISOLATE
DELAY START OF: FYA..0.0 CLEARANCE..0.0
ACTION PLAN SF BIT DISABLE..... 5

NOTICE ACTION
PLAN SF BIT "5"

Toggle Once

END PROGRAMMING

ECONOLITE ASC/3-2070 VEHICLE DETECTOR SETUP
PROGRAMMING DETAIL FOR ALTERNATE PHASING

LOOP 5A

(program controller as shown)

IMPORTANT!

Program detectors per the input file connection and programming chart shown on sheet 1 before proceeding.

1. From Main Menu select 8. UTILITIES

2. From UTILITIES Submenu select 1. COPY/CLEAR

3. Copy from DETECTOR PLAN "1" to DETECTOR PLAN "2".

COPY / CLEAR UTILITY
FROM TO
PHASE TIMING.... > PHASE TIMING....
TIMING PLAN..... > TIMING PLAN.....
PH DET OPT PLAN. . > PH DET OPT PLAN. .
DETECTOR PLAN... 1 > DETECTOR PLAN... 2
TOGGLE TO SELECT A "FROM" AND A "TO"
THEN PRESS ENTER

4. From Main Menu select 6. DETECTORS

5. From DETECTOR Submenu select 2. VEHICLE DETECTOR SETUP

6. Place cursor in VEH DET PLAN [] position and enter "2".

- Place cursor in VEH DETECTOR [] position and enter "5".
- Set delay time to "0".

VEH DETECTOR [5] VEH DET PLAN [2]
TYPE: N-NTCIP
TS2 DETECTOR..... ECPI LOG..... NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
5 5
CALL OPTION.... YES DELAY TIME... 0.0
EXT OPTION. PASSAGE EXTENSION TIME. 0.0
USE ADDED INITIAL . CROSS SWITCH PH.. 0
LOCK IN..... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY- NO

NOTICE VEH
DET PLAN 2

ENSURE DELAY
IS SET TO '0'

- Place cursor in VEH DETECTOR [] position and enter "22".
- Set assigned phase to "0".

VEH DETECTOR [22] VEH DET PLAN [2]
TYPE: G-GREEN EXTENSION/DELAY
TS2 DETECTOR..... ECPI LOG..... NO
DET PH - 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
22 0
EXTEND TIME... 0.0 DELAY TIME... 3.0
USE ADDED INITIAL . CROSS SWITCH PH.. 0
LOCK IN..... NONE NTCIP VOL . OR OCC .
PMT QUEUE DELAY- NO

NOTICE VEH
DET PLAN 2

ENSURE PHASE
IS SET TO "0"

END PROGRAMMING

ECONOLITE ASC/3-2070
LOAD SWITCH ASSIGNMENT DETAIL

(program controller as shown)

To assign load switches S4 as OLG and S11 as OLH,
program LD SWITCH 3 as OVLP '7' TYPE '0' and LD
SWITCH 8 as OVLP '8' TYPE '0' shown below.

1. From Main Menu select 1. CONFIGURATION

2. From CONFIGURATION Submenu select 3. LOAD SW ASSIGN

NOTICE OVERLAP G
ASSIGNED TO
LD SWITCH 3

NOTICE OVERLAP H
ASSIGNED TO
LD SWITCH 8

LD SWITCH ASSIGN											
	PHASE /OVLP	TYPE	DIMMING			---FLASH---			PWR	AUT	TGR
			R	Y	G	D	A	R			
1	1	V	.	.	.	+	A	R	.	.	X
2	2	V	.	.	.	+	A	R	.	.	.
3	7	O	.	.	.	+	A	R	.	.	X
4	4	V	.	.	.	+	A	R	.	.	.
5	5	V	.	.	.	-	A	R	.	.	.
6	6	V	.	.	.	-	A	R	.	.	X
7	7	V	.	.	.	-	A	R	.	.	.
8	8	O	.	.	.	-	A	R	.	.	X
9	2	P	.	.	.	+	A	.	.	.	.
10	4	P	.	.	.	+	A	.	.	.	.
11	6	P	.	.	.	-	A	.	.	.	.
12	8	P	.	.	.	-	A	.	.	.	.
13	1	O	.	.	.	+	A	R	.	.	X
14	2	O	.	.	.	-	A	R	.	.	X
15	3	O	.	.	.	+	A	R	.	.	.
16	4	O	.	.	.	-	A	R	.	.	.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 07-1113
DESIGNED: January 2025
SEALED: 03-14-2025
REVISED: N/A

Electrical Detail - Sheet 2 of 4

ALL Transportation Mobility and Safety Projects of NORTH CAROLINA DEPARTMENT OF TRANSPORTATION & Signal Management Systems

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PLAN DATE: January 2025 REVIEWED BY: AM Encarnacion

PREPARED BY: JT Stiff REVIEWED BY: PL Alexander

REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
044476
ANTHONY M. ENCARNACION

Designed by:
Anthony Encarnacion
Signature 3/14/2025
DATE

SIG. INVENTORY NO. 07-1113

13-MAR-2025 16:55
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